

Report to: Company: <i>DEBORAH ROGERS</i> Address: Contact: Phone: XXXXXXXXXX Fax: XXXXXXXXXX Email: XXXXXXXXXX	Invoice to: Company: Address: Contact: Phone: PO/SO:	ANALYSIS REQUESTED <i>TO-14VOCs + Diesel range Collection</i> <i>TO-15VOCs</i> <i>TO-1 and/or TO-2 VOCs</i> <i>FIXED GASES (CO₂, CO, O₂, N₂, CH₄)</i> <i>Light Hydrocarbon C₁-C₈</i> <i>Headspace (Please specify compounds)</i> <i>Mercaptans & Organic Sulfur Compounds</i> <i>RSK-175 (Methane, ethane, ethene)</i> <i>MOLD ID</i>
--	---	--

7 TOTAL PAGES
PAGE 1 OF 7

Sampler's Name (print) *DEBORAH ROGERS* Sampler's Signature *[Signature]*
 Proj. No. *NW. CHESTER WEL*

Date	Time	Can #	Id	Make of Sample(s)	TO-14VOCs + Diesel range Collection	TO-15VOCs	TO-1 and/or TO-2 VOCs	FIXED GASES (CO ₂ , CO, O ₂ , N ₂ , CH ₄)	Light Hydrocarbon C ₁ -C ₈	Headspace (Please specify compounds)	Mercaptans & Organic Sulfur Compounds	RSK-175 (Methane, ethane, ethene)	MOLD ID	Lab Sample ID (Lab Use Only)
<i>5-5-10</i>	<i>9:38 PM</i>	<i>145</i>		<i>NW</i>	<input checked="" type="checkbox"/>									<i>GD10-0087-1</i>

Relinquished by: (Signature) <i>[Signature]</i>	Date <i>6/11/10</i>	Time <i>10:45</i>	Received by: (Signature)	Date	Time	Remarks <i>Prepd. by credit card for 3 cans + Fe, # Voc's + S₂</i> Any change for Analysis Request should be submitted by a written document.
Relinquished by: (Signature)	Date	Time	Received by: (Signature) <i>[Signature]</i>	Date <i>6/5/10</i>	Time <i>10:45</i>	

CLIENT: **Deborah Rogers**

 GD Air Testing Lab. ID: **GD10-0087-001**

 Report Date: **18-May-10**

 Date Analyzed: **13-May-10**

 Analyzed by: **LAJ**

 GD Air QC Batch: **QC-051310TO14**

 Method: **EPATO14**
NELAP Certification #: **T104704364-09-TX**

Project No.:

REPORT OF ANALYTICAL RESULTS

Page 1 of 2

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	SAMPLED DATE /RECEIVED		
				05/05/10	05/06/10
CONSTITUENT	MW	CAS	PQL* ppbv	RESULT ppbv	NOTE ug/cu M
	Air	Deborah Rogers			
Benzene	78	71432	0.26	1.24	3.96
Benzylchloride	126.6	100447	0.26	ND	ND N
Bromomethane (Methyl Bromide)	94.9	74839	0.26	ND	ND
Carbon tetrachloride	153.8	56235	0.26	ND	ND
Chlorobenzene	112.6	108907	0.26	ND	ND
Chloroethane (Ethyl Chloride)	64.5	75003	0.26	ND	ND
Chloroform	119	67663	0.26	ND	ND
Chloromethane (Methyl Chloride)	50.4	74873	0.26	0.50	1.04
1,2-Dibromoethane (EDB)	187.9	106934	0.26	ND	ND
1,2-Dichlorobenzene	147	95501	0.26	ND	ND
1,3-Dichlorobenzene	147	541731	0.26	ND	ND
1,4-Dichlorobenzene	147	106467	0.26	ND	ND
1,1-Dichloroethane	99	74343	0.26	ND	ND
1,1-Dichlorethene	97	75354	0.26	ND	ND
Dichlorodifluoromethane (F12)	120.9	75718	0.26	0.42	2.06
Dichlorotetrafluoroethane (F114)	170.9	76142	0.26	ND	ND
1,2-Dichloroethane (EDC)	99	107062	0.26	ND	ND
cis-1,2-Dichloroethene	97	156592	0.26	ND	ND
trans-1,2-Dichloroethene	97	156605	0.26	ND	ND N
Dichloromethane (Methylene chloride)	84.9	75092	0.26	ND	ND
1,2-Dichloropropane	113	78875	0.26	ND	ND
cis-1,3-Dichloropropene	111	10061015	0.26	ND	ND
trans-1,3-Dichloropropene	111	10061026	0.26	ND	ND
Ethylbenzene	106	100414	0.26	0.47	2.05
Hexachlorobutadiene	260.8	87683	0.64	ND	ND
Styrene	104	100425	0.26	ND	ND
1,1,2,2-Tetrachloroethane	167.9	79345	0.26	ND	ND
Tetrachloroethene (PCE)	165.8	127184	0.26	ND	ND
Toluene	92	108883	0.26	3.20	12.0
1,1,1-Trichloroethane (TCA)	133.4	71556	0.26	ND	ND
1,1,2-Trichloroethane	133.4	79005	0.26	ND	ND
1,3,5-Trimethylbenzene/4-Ethyltoluene	120.2	108678	0.26	1.26	6.19
1,2,4-Trimethylbenzene	120.2	95636	0.26	0.56	2.73
1,2,4-Trichlorobenzene	181.5	120821	0.64	ND	ND
Trichloroethene (TCE)	131.3	79016	0.26	ND	ND

PAGE 2 OF 7



CLIENT: Deborah Rogers

GD Air Testing Lab. ID: GD10-0087-001
Report Date: 18-May-10
Date Analyzed: 13-May-10
Analyzed by: LAJ
GD Air QC Batch: QC-051310TO14
Method: EPATO14
NELAP Certification #: T104704364-09-TX

Project No.:

REPORT OF ANALYTICAL RESULTS

Page 2 of 2

Table with columns: SAMPLE DESCRIPTION, MATRIX, SAMPLE BY, SAMPLED DATE /RECEIVED, CONSTITUENT, MW, CAS, PQL* ppbv, RESULT ppbv, NOTE ug/cu M. Includes rows for Trichlorofluoromethane, Vinyl Chloride, m&p-Xylenes, o-Xylene, TPH as DRO, and Surrogate Recovery Report.

*Comparison with the method blank this sample run with a dilution factor of: 1.28
Canister #145 was received at an initial pressure of -0.35psi and pressurized to 3.7psi.
N: Not in the Scope of NELAC Accrediation. Instrument calibration not performed for this analyte.
Analyte determined as tentatively identified compound (TIC).
S: Not in Scope of NELAC Accrediation.
*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).
* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.
*Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.
*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted
GD Air Testing, Inc.

AJ for Dr. Dai

George Dai, Ph.D.
Laboratory Director

Data File: varian\data\100513-8-0087-1.sms
Report File: GDAIR D:\Client-Report\GD10-0087-001



CLIENT: Deborah Rogers

Project No.:

GD Air Testing Lab. ID: GD10-0087-001M

Report Date: 18-May-10

Date Analyzed: 13-May-10

Analyzed by: LAJ

GD Air QC Batch: QC-051310TO14

Method: GC/MS SCAN

NELAP Certification # T104704364-09-TX

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	SAMPLED DATE /RECEIVED			
	Air	Deborah Rogers	05/05/10	05/06/10		
CONSTITUENT	MW	CAS	PQL*	RESULT	NOTE	
			ppbv	ppbv	ug/cu M	
Sulfur Gases by GC/MS						
Carbon Disulfide	76	75150	1.28	10.8	33.6	N
Carbonyl Sulfide	60	463581	1.28	ND	ND	N
Dimethyl Sulfide	62	75183	1.28	ND	ND	N
Dimethyl Disulfide	94	624920	1.28	ND	ND	N
Methyl ethyl Disulfide	108	20333395	1.28	ND	ND	N
Methyl propyl Disulfide	122	2179604	1.28	ND	ND	N
Butyl Mercaptan	90	109795	1.28	ND	ND	N
Isobutyl Mercaptan	90	513531	1.28	ND	ND	N
Ethyl Mercaptan	62	75081	1.28	ND	ND	N
Methyl Mercaptan	48	74931	1.28	ND	ND	N
Propyl Mercaptan	76	107039	1.28	ND	ND	N
Isopropyl Mercaptan	76	75332	1.28	ND	ND	N
tert-Butyl Mercaptan	90	75661	1.28	ND	ND	N
Diethyl Sulfide	90	352932	1.28	ND	ND	N
Diethyl Disulfide	122	110816	1.28	ND	ND	N
Dimethyl Trisulfide	126	3658808	1.28	ND	ND	N

*Comparison with the method blank this sample run with a dilution factor of: 1.28

Canister #145 was received at an initial pressure of -0.35psi and pressurized to 3.7psi.

N: Not in the Scope of NELAC Accrediation. Instrument calibration not performed for this analyte.

Analyte determined as tentatively identified compound (TIC).

*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted
GD Air Testing, Inc.

George Dai, Ph.D.
Laboratory Director

Data File: varian\data100513-8-0087-1.sms

Report File: GDAIR D:\Client_Report\GD10-0087-1M



CLIENT: **GD Air Testing, Inc.**

GD Air Testing Lab. ID:

Method Blank

Report Date:

05/14/10

Date Analyzed:

05/13/10

Analyzed by:

LAJ

Project No.:

GD Air QC Batch:

QC-051310

Method:

EPATO14

NELAP Certification #:

T104704364

REPORT OF METHOD BLANK RESULTS

Page 1 of 2

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	SAMPLED DATE /RECEIVED		
BLK	Air				
CONSTITUENT	MW	CAS	PQL* ppbv	RESULT ppbv	NOTE ug/cu M
Benzene	78	71432	0.20	ND	ND
Benzylchloride	126.6	100447	0.20	ND	ND N
Bromomethane (Methyl Bromide)	94.9	74839	0.20	ND	ND
Carbon tetrachloride	153.8	56235	0.20	ND	ND
Chlorobenzene	112.6	108907	0.20	ND	ND
Chloroethane (Ethyl Chloride)	64.5	75003	0.20	ND	ND
Chloroform	119	67663	0.20	ND	ND
Chloromethane (Methyl Chloride)	50.4	74873	0.20	ND	ND
1,2-Dibromoethane (EDB)	187.9	106934	0.20	ND	ND
1,2-Dichlorobenzene	147	95501	0.20	ND	ND
1,3-Dichlorobenzene	147	541731	0.20	ND	ND
1,4-Dichlorobenzene	147	106467	0.20	ND	ND
1,1-Dichloroethane	99	74343	0.20	ND	ND
1,1-Dichlorethene	97	75354	0.20	ND	ND
Dichlorodifluoromethane (F12)	120.9	75718	0.20	ND	ND
Dichlorotetrafluoroethane (F114)	170.9	76142	0.20	ND	ND
1,2-Dichloroethane (EDC)	99	107062	0.20	ND	ND
cis-1,2-Dichloroethene	97	156592	0.20	ND	ND
trans-1,2-Dichloroethene	97	156605	0.20	ND	ND N
Dichloromethane (Methylene chloride)	84.9	75092	0.20	ND	ND
1,2-Dichloropropane	113	78875	0.20	ND	ND
cis-1,3-Dichloropropene	111	10061015	0.20	ND	ND
trans-1,3-Dichloropropene	111	10061026	0.20	ND	ND
Ethylbenzene	106	100414	0.20	ND	ND
Hexachlorobutadiene	260.8	87683	0.20	ND	ND
Styrene	104	100425	0.20	ND	ND
1,1,2,2-Tetrachloroethane	167.9	79345	0.20	ND	ND
Tetrachloroethene (PCE)	165.8	127184	0.20	ND	ND
Toluene	92	108883	0.20	ND	ND
1,1,1-Trichloroethane (TCA)	133.4	71556	0.20	ND	ND
1,1,2-Trichloroethane	133.4	79005	0.20	ND	ND
1,3,5-Trimethylbenzene/4-Ethyltoluene	120.2	108678	0.20	ND	ND
1,2,4-Trimethylbenzene	120.2	95636	0.20	ND	ND
1,2,4-Trichlorobenzene	181.5	120821	0.30	ND	ND
Trichloroethene (TCE)	131.3	79016	0.20	ND	ND



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID:

Method Blank

Report Date:

05/14/10

Date Analyzed:

05/13/10

Analyzed by:

LAJ

Project No.: QC

GD Air QC Batch:

QC-051310

Method:

EPATO14

NELAP Certification #:

T104704364

REPORT OF ANALYTICAL RESULTS

Page 2 of 2

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY		SAMPLED DATE /RECEIVED		
BLK	Air					
CONSTITUENT	MW	CAS	PQL*	RESULT	NOTE	
			ppbv	ppbv	ug/cu M	
Trichlorofluoromethane (F-11)	137.4	75694	0.20	ND	ND	
Trichlorotrifluoroethane (F-113)	187.4	76131	0.20	ND	ND	
Vinyl Chloride	62.5	75014	0.20	ND	ND	
m&p-Xylenes	106	1330207	0.20	ND	ND	
o-Xylene	106	95476	0.20	ND	ND	
Surrogate Recovery Report			Spiked	Found	R%	
			ppbv	ppbv		
1,4-Difluorobenzene (SS1)	118.1	540363	5.00	4.34	86.8	
Bromofluorobenzene (SS2)	175	460004	5.00	2.72	54.4	

*Comparison with the method blank this sample run with a dilution factor of:

1.0

N: Not included in the Scope of NELAC Accrediation. Instrument calibration not performed for this analyte.

Analyte determined as tentatively identified compound (TIC).

*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

*Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.

*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted

GD Air Testing, Inc.

AJ for Dr. Dai

George Dai, Ph.D.

Laboratory Director

Data File: c:\Varian\100513-7-blk.sms

Report File: GD SR\ND\QC-10-TO14\Blank

CLIENT: **GD Air Testing, Inc.**

GD Air Testing Lab. ID:

BS/BSD

Report Date:

05/14/10

Date Analyzed:

05/13/10

Project No.:

Analyzed by:

LAJ

GD Air QC Batch:

QC-051310

Method:

EPATO14

NELAP Certification #:
T104704364
REPORT OF BLANK SPIKE RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	SAMPLED DATE /RECEIVED			
BS/BSD	Air					
Spike Control Compounds	Spiked ppbv	BS/ppbv	Found and Recovery			
			BS R%	BSD	BSD R%	% RPD
VOLATILE ORGANICS BY EPA TO-14						
Vinyl Chloride	10.0	9.2	92	9.3	93	1
Methylene chloride (Dichloromethane)	10.0	9.1	91	9.1	91	0
1,1,1-Trichloroethane	10.0	9.1	91	9.0	90	1
1,2-Dichloroethane (EDC)	10.0	9.1	91	8.8	88	3
Benzene	10.0	7.1	71	6.8	68	4
Carbon tetrachloride	10.0	7.4	74	7.0	70	6
Trichloroethene (TCE)	10.0	8.2	82	8.0	80	2
Toluene	10.0	11.0	110	11.4	114	4
Chlorobenzene	10.0	11.1	111	11.1	111	0
Ethylbenzene	10.0	11.5	115	11.3	113	2
o-Xylene	10.0	11.1	111	11.1	111	0
Surrogate Recovery Report						
1,4-Difluorobenzene (SS1)	5.0	4.25	85.0	4.06	81.2	4.6
Bromofluorobenzene (SS2)	5.0	2.66	53.2	2.78	55.6	4.4

* The control limit for BS Recovery % of all spiked compound is 70% - 130%

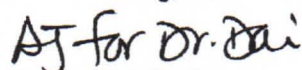
* The control limit for relative percentage difference of BS/BSD is 30%

* If any control compound is not within the control limit, please see the case narrative for more details.

* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

Respectfully submitted

GD Air Testing, Inc.



George Dai, Ph.D.

Laboratory Director

Data File: VARIAN\100513-4-bs.sms and 100513-5-bsd.sms

Report File: GD\SRID\QC-TO14\BS-BSD